

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2011 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including DWR Erosion Survey**

***San Joaquin River Basin***

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RD0001	Overall LMA Rating	Total LMA Miles					
Reclamation District No. 0001 Union Island			A	1.15			
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments		
					PO Miles	CO Miles	
Earthen Levee							
Vegetation	0.01		0.01	0.87%			
Animal Control	0.04		0.04	3.48%			
LMA Totals:	0.05	0.00	0.05	4.35%	0.00	0.00	

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2011 Levee Inspection Results**

**Reclamation District No. 0001 Union Island**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2011 Levee Inspection Results**

**Reclamation District No. 0001 Union Island**

Waterway			Bank	Unit Miles
Unit No. 01 Old River			Right	1.15
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	4/26/2011 - 4/26/2011		10/25/2011 - 10/25/2011	
DWR Inspector	Jim Eto		Jim Eto	
Accompanied By			Chip Salmon	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Suite 200  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0001 Union Island**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River				Right	1.15	10/25/2011 10/25/2011	Jim Eto

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.01	0.01	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Steel irrigation intake pipe up levee slope and through freeboard.	37.822408 ° -121.375714 °	37.822408 ° -121.375714 °	1
2	0.02	0.02	Earthen Levee	Erosion / Bank Caving	LS	C	Schedule repair of erosion site prior to the next inspection. Inspector Comments: Erosion occurring in area requiring animal control.	37.822511 ° -121.375857 °	37.822511 ° -121.375857 °	3
3	0.02	0.02	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Several burrows present	37.822511 ° -121.375857 °	37.822511 ° -121.375857 °	18 Y
4	0.02	0.02	Earthen Levee	Erosion / Bank Caving	LS	A	Inspector Comments: 10/25/2011 Erosion site has been repaired, photo attached.	37.822051 ° -121.375857 °	37.822051 ° -121.375857 °	14 Y
5	0.03	0.03	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Burrow evident on water side, burrow appears to have collapsed.	37.822403 ° -121.375937 °	37.822403 ° -121.375937 °	4 Y
6	0.07	0.07	Earthen Levee	Erosion / Bank Caving	LS	C	Note and monitor erosion site. Inspector Comments: Monitor site, erosion appears to be starting due to water runoff at this point	37.822268 ° -121.376762 °	37.822268 ° -121.376762 °	6
7	0.11	0.11	Earthen Levee	Erosion / Bank Caving	LS	C	Schedule repair of erosion site prior to the next inspection. Inspector Comments: Landside slope is eroded creating two large holes at the hinge point.04/26/2011 Repairs have been made to a portion of the location, but are not adequate and need further attention.	37.822051 ° -121.377320 °	37.822051 ° -121.377320 °	2
8	0.17	0.17	Earthen Levee	Erosion / Bank Caving	WS	C	Note and monitor erosion site. Inspector Comments: Monitor erosion site. Crown is approximately 40' wide at this point.	37.821461 ° -121.378110 °	37.821461 ° -121.378110 °	8
9	0.29	0.29	Earthen Levee	Encroachments	WS	C	Equipment Inspector Comments: Solar powered monitoring(?) equipment.	37.820338 ° -121.379095 °	37.820338 ° -121.379095 °	22
10	0.35	0.35	Earthen Levee	Animal Control	LS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: 04/26/2011 Active burrows present	37.820187 ° -121.380150 °	37.820187 ° -121.380150 °	12
11	0.39	0.39	Earthen Levee	Encroachments	WS	W	Pipe Inspector Comments: Irrigation intake through levee crown.	37.819651 ° -121.380467 °	37.819651 ° -121.380467 °	7 Y
12	0.43	0.48	Earthen Levee	Animal Control	LS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Numerous active burrows as evidenced by fresh soil around holes. Burrows are within overgrown vegetation.	37.818849 ° -121.380309 °	37.818360 ° -121.379956 °	24

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable      PO : Partially Obstructing      N : Not Inspected, see Inspector Comment      C : Corrected  
M : Minimally Acceptable      CO : Completely Obstructing  
U : Unacceptable      W : Watch/Monitor

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0001 Union Island**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Old River				Right	1.15	10/25/2011 10/25/2011	Jim Eto	

  

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
13	0.54	0.54	Earthen Levee	Erosion / Bank Caving	LS	C	Schedule repair of erosion site prior to the next inspection. Inspector Comments: Crown width 50'. 04/26/2011 Repair work is not sufficient, crown has been filled, but erosion on levee landside slope has not been repaired.	37.817515 ° -121.379943 °	37.817515 ° -121.379943 °	9
14	0.54	0.54	Earthen Levee	Erosion / Bank Caving	LS	A	Inspector Comments: Site has been repaired, photo attached.	37.817515 ° -121.379943 °	37.817515 ° -121.379943 °	5 Y
15	0.56	0.56	Earthen Levee	Erosion / Bank Caving	LS	C	Schedule repair of erosion site prior to the next inspection. Inspector Comments: New erosion site adjacent to erosion site at LM 0.54 that must also be addressed.	37.817535 ° -121.380279 °	37.817535 ° -121.380279 °	25
16	0.56	0.56	Earthen Levee	Animal Control	LS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Active burrows present, burrows are within erosion site.	37.817547 ° -121.380285 °	37.817547 ° -121.380285 °	26
17	0.66	0.66	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.817249 ° -121.382026 °	37.817249 ° -121.382026 °	15 Y
18	0.67	0.67	Earthen Levee	Encroachments	LS	W	Pipe Inspector Comments: Drainage discharge into Old River. No photo found from previous inspection. 04/26/2011 photo added.	37.817134 ° -121.382099 °	37.817134 ° -121.382099 °	20 Y
19	0.67	0.67	Earthen Levee	Animal Control	CR	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Deep vertical rodent hole in crown of levee, see photo. Shovel handle stopped at bend in burrow.	37.817109 ° -121.382192 °	37.817109 ° -121.382192 °	27 Y
20	0.86	0.86	Earthen Levee	Encroachments	LS	W	Pipe Inspector Comments: Irrigation intake through levee freeboard.	37.814566 ° -121.382450 °	37.814566 ° -121.382450 °	10
21	0.91	0.91	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.814220 ° -121.383336 °	37.814220 ° -121.383336 °	11

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**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0001 Union Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.15	10/25/2011 10/25/2011	Jim Eto

Levee Mile Report Line	3
Start Levee Mile	0.02
End Levee Mile	0.02
Location	Land Side
Category	Earthen Levee
Item	Animal Control

04/26/2011 Animal burrow in levee crown.

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Levee Mile Report Line	3
Start Levee Mile	0.02
End Levee Mile	0.02
Location	Land Side
Category	Earthen Levee
Item	Animal Control

04/26/2011 Several burrows present in levee crown and landside slope.

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Levee Mile Report Line	4
Start Levee Mile	0.02
End Levee Mile	0.02
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

10/25/2011 Erosion site has been repaired.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.15	10/25/2011 10/25/2011	Jim Eto

Levee Mile Report Line	5
Start Levee Mile	0.03
End Levee Mile	0.03
Location	Water Side
Category	Earthen Levee
Item	Animal Control
04/26/2011 Several burrows present on water side, burrows appear to be collapsing.	
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Levee Mile Report Line	11
Start Levee Mile	0.39
End Levee Mile	0.39
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Drainage discharge pipe through levee freeboard.	
jeto_f_20110923_093.jpg	



Levee Mile Report Line	14
Start Levee Mile	0.54
End Levee Mile	0.54
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving
10/25/2011 Photo showing repair of erosion site.	
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**Levee Inspection Report By Mile - Fall 2011**

**Reclamation District No. 0001 Union Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Old River	Right	1.15	10/25/2011 10/25/2011	Jim Eto

Levee Mile Report Line	17
Start Levee Mile	0.66
End Levee Mile	0.66
Location	Land Side
Category	Earthen Levee
Item	Animal Control

Active rodent holes on levee slope.

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Levee Mile Report Line	18
Start Levee Mile	0.67
End Levee Mile	0.67
Location	Land Side
Category	Earthen Levee
Item	Encroachments

04/26/2011 Discharge pipe in water side slope.

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Levee Mile Report Line	19
Start Levee Mile	0.67
End Levee Mile	0.67
Location	Crown
Category	Earthen Levee
Item	Animal Control

04/26/2011 Deep vertical burrow in levee crown.

jeto\_f\_20110923\_107.jpg



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